2023-2024

QUALITY CONTROL TEST REPORTS

Client: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency: Sri. Narayanaswamy G, Contractor, Bangalore.

Name of Work : Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

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QC ABSTRACT

Nameof Work: Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes
1	1:3:6	18.23 Cum	1	1	Pass
2	M25	2.2 Cum	1	1	Pass
3	Steel	264.16 Kgs	1	1	Pass
4	Paver Blocks	119.12 Sqm	1	1	Pass
5	CC Blocks-8'	6.09 Sqm	1	1	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜ ಜ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/NG/W.No.03/2023-24

Date: 17.05.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Narayanaswamy G,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE	:	April - 2023
DATE OF TESTING	:	15.05.2023 to 17.05.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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Job No.: CACE/BBMP/NG/W.No.03/2023-24 Date : 15.05.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanaswamy G,** Contractor, Bangalore.

Name of Work : Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Date of Testing : 15.05.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	135	13.50	22.40	77.6	75-100
1.18	182	18.20	40.60	59.4	55-90
600 Micron	166	16.60	57.20	42.8	35-59
300 Micron	220	22.00	79.20	20.8	8-30
150 Micron	145	14.50	93.70	6.3	0-10

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Job No.: CACE/BBMP/NG/W.No.03/2023-24 Date : 15.05.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanaswamy G,** Contractor, Bangalore.

Name of Work : Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Date of Testing : 15.05.2023

Material : Sand - Masonry

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	16	1.60	1.60	98.4	90-100
1.18	38	3.80	5.40	94.6	70-100
600 Micron	89	8.90	14.30	85.7	40-100
300 Micron	245	24.50	38.80	61.2	5-70
150 Micron	486	48.60	87.40	12.6	0-15

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Job No.: CACE/BBMP/NG/W.No.03/2023-24

Date : 15.05.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanaswamy G,** Contractor, Bangalore.

Name of Work : Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Date of Testing : 15.05.2023

Material : Sand - Plastering

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	14	1.40	1.40	98.6	95-100
2.36	24	2.40	3.80	96.2	95-100
1.18	39	3.90	7.70	92.3	90-100
600 Micron	45	4.50	12.20	87.8	80-100
300 Micron	256	25.60	37.80	62.2	20-65
150 Micron	510	51.00	88.80	11.2	0-15

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Job No.: CACE/BBMP/NG/W.No.03/2023-24

Date : 15.05.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanaswamy G,** Contractor, Bangalore.

Name of Work : Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Date of Testing : 15.05.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	172	3.4	3.4	96.6	95-100
10	2436	48.7	52.2	47.8	25-55
4.75	1950	39.0	91.2	8.8	0-10

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Job No.: CACE/BBMP/NG/W.No.03/2023-24

Date : 15.05.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanaswamy G,** Contractor, Bangalore.

Name of Work : Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Date of Testing : 15.05.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	162	1.08	1.08	98.92	95-100
20	8235	54.90	55.98	44.02	30-70
10	3256	21.71	77.69	22.31	10-35
4.75	2810	18.73	96.42	3.58	0-5

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Job No.: CACE/BBMP/NG/W.No.03/2023-24

Date : 18.05.2023

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanaswamy G,** Contractor, Bangalore.

Name of Work : Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm,12mm, " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 18.05.2023

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.395	538	611	1.14	14
2	TMT	10	0.617	549	632	1.15	15
3	TMT	12	0.888	556	645	1.16	16.5

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Job No.:CACE/BBMP/NG/W.No.03/2023-24

Date :18.05.2023

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri. Narayanaswamy G, Contractor, Bangalore.**

Name of the Work : Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Date of Testing :18.05.2023

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	32.1	331.5	4.14	2006.25	Minimum required Compressive Strength of Individual Units $4.00N/mm^2$
2	Block 2	32.3	332.7	4.16	2018.75	
3	Block 3	32.8	334.9	4.19	2050.00	
4	Block 4	33.2	336.3	4.20	2075.00	

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Job No.: CACE/BBMP/NG/W.No.03/2023-24

Date: 31.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanaswamy G,** Contractor, Bangalore.

Name of the work : Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.05.2023	31.05.2023	8.140	395.8	17.59
2	24.05.2023	31.05.2023	8.132	397.3	17.66
3	24.05.2023	31.05.2023	8.118	399.1	17.74

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Job No.: CACE/BBMP/NG/W.No.03/2023-24 Date: 21.06.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanaswamy G,** Contractor, Bangalore.

Name of the work : Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.05.2023	21.06.2023	8.189	597.3	26.55
2	24.05.2023	21.06.2023	8.165	599.1	26.63
3	24.05.2023	21.06.2023	8.145	601.3	26.72

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Job No.: CACE/BBMP/NG/W.No.03/2023-24 Date: 07.06.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanaswamy G,** Contractor, Bangalore.

Name of the work : Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2023	07.06.2023	8.110	399.9	17.77
2	31.05.2023	07.06.2023	8.112	401.5	17.84
3	31.05.2023	07.06.2023	8.119	402.7	17.90

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-105

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/NG/W.No.03/2023-24 Date: 28.06.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Narayanaswamy G,** Contractor, Bangalore.

Name of the work : Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2023	28.06.2023	8.172	601.3	26.72
2	31.05.2023	28.06.2023	8.177	598.7	26.61
3	31.05.2023	28.06.2023	8.179	599.5	26.64

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-10೯

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Job No.: CACE/BBMP/NG/W.No.03/2023-24

Date: 08.06.2023.

TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	:	**Sri. Narayanaswamy G,** Contractor, Bangalore.
Name of the work	:	Improvements and repairs to Samudaya Bhavana building at Yelahanka 4th phase in Someshwara Ward no-03 of Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. **THICKNESS:**

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	75.12	75.13
2	02	75.14	

2. **COMPRESSIVE STRENGTH:**

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	692.8	24,200	28.62	286.2	Minimum required Compressive Strength of Individual Units 281 Kg/m^2
2	02	695.4	24,200	28.73	287.3	

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